



genes



an Open Access Journal by MDPI

Crop Microbiome: Structure and Function

Guest Editors:

Prof. Dr. Jan Leach

Department of Agricultural
Biology, Colorado State
University, Fort Collins, CO 80523,
USA

Dr. Pankaj Trivedi

Department of Agricultural
Biology, Colorado State
University, Fort Collins, CO 80523,
USA

Deadline for manuscript
submissions:

closed (15 July 2021)

Message from the Guest Editors

One of the significant challenges faced by 21st-century agriculture is to sustainably produce increased amounts of healthier food under challenging environmental and sociological conditions. To tackle this growing crisis, increased efforts need to be devoted to understanding the plant microbiome for applications allowing for improved and more sustainable agricultural and horticultural practices. Despite the increasing recognition of the importance of the microbiome for plant growth and health, harnessing its genomic potential as a new platform for improved resilience against stresses of future crop production is a significant challenge. This research topic will highlight the current knowledge on the state-of-the-art in plant-microbiome interactions, as well as their specificity, diversity, and functions. Especially welcome are articles focused on engineering microbiomes with synthetic microbial communities capable of delivering agronomic and environmental solutions for a more sustainable future. Furthermore, all fundamental and applied studies of the management of plant microbiomes for increased plant productivity and climate resilience are encouraged.



mdpi.com/si/70028

Special Issue



genes



an Open Access Journal by MDPI

Editor-in-Chief

Prof. Dr. Selvarangan Ponnazhagan

Department of Pathology, The University of Alabama at Birmingham, 1825 University Blvd, SHEL 814, Birmingham, AL 35294-2182, USA

Message from the Editor-in-Chief

Genes are central to our understanding of biology, and modern advances such as genomics and genome editing have maintained genetics as a vibrant, diverse and fastmoving field. There is a need for good quality, open access journals in this area, and the *Genes* team aims to provide expert manuscript handling, serious peer review, and rapid publication across the whole discipline of genetics. Starting in 2010, the journal is now well established and recognised.

Why not consider *Genes* for your next genetics paper?

Author Benefits

Open Access: free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility: indexed within Scopus, SCIE (Web of Science), PubMed, MEDLINE, PMC, Embase, PubAg, and other databases.

Journal Rank: JCR - Q2 (*Genetics & Heredity*) / CiteScore - Q2 (*Genetics*)

Contact Us

Genes Editorial Office
MDPI, St. Alban-Anlage 66
4052 Basel, Switzerland

Tel: +41 61 683 77 34
www.mdpi.com

mdpi.com/journal/genes
genes@mdpi.com
[X@Genes_MDPI](#)